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state has appropriated \$285,000.

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HIE MOTOR

GRAND RAPIDS, MICH.

plant, now practically completed, is a sure steam is required for the heat- situated just above the railroad spur model of efficiency. It embodies the ing systems of the various buildings, latest methods of construction. When and in the heating of water for dothird of a million dollars, of which the state has appropriated \$285,000.

mestic service, and for the boilers themselves. Compressed air is required for the operation of thermotate has appropriated \$285,000.

The plant is intended to make availing the various buildings, as well for able for the use of all the depart- the care of electrical machinery and ments of the University heat, com- epparatus. Electrical energy is repressed air and electrical energy, distributing in the form desired at all distribution, and at 110 volts for lightthe various points of demand. High ing, and 220 volts for power. A dipressure steam is required for laborect current is also required at 125 ratory use for the operation of the present direct current motors and labengines driving electrical generators oratory use, and at 500 volts for electric railway service.

From first to last, it has been the aim of the designers to do away with all the labor possible, and to this end every possible labor-saving device has been employed. From the time waen the coal is taken from the mines to the time when the ashes are hauled away, not a man's shovel will touch a particle of coal or refuse. A thirtyton electrical locomotive brings the coal cars to the plant from the Michigan Central tracks, an electrically operated traveling crane unloads the coal into an outside storage bin of 2,000 tons capacity. From there it is elevated, crushed and dumped into the steel bunkers of 500 tons capacity over the boiler room, from which the proper number of pounds are let into the grate beneath each boiler by

Ann Arbor.-Michigan's new power | and for pumping water. Low pres- | all, into a twelve-ton ash container, on the west side of the building. Fifteen thousand tons of coal a year will be handled in this way.

Into each of the boilers the coal is weighed separately, so that a record of the cost of firing each boiler is possible. In addition to these boilers, which supply steam for the power plant and for heating purposes, there are two large feed water heaters, which bring the water to the boiling point before it is turned into the boilers, in this way avoiding the waste of send to the nearest school-teacher heat, which results when cold water samples of soil from the proposed must be brought to boiling in the boiler itself. Each of these heaters will have a capacity of 12,000 gallons per hour at a temperature of 212 degrees. They will also supply hot water for gymnasiums and the Nomocopathic hospital.

Only three men will be required to run the plant at any one time, an engineer, a stoker and a water-boy. They will work in eight-hour shifts, so be needed for the operation of the

SOIL TESTING CAMPAIGN

INAUGURATED IN MICHIGAN.

Traverse City.—The campaign against the apple tree tent caterpillar, which has been conducted in Western Michigan during the past means of a lever. From the grate the Prof. Myron A. Cobb of the agricularies ashes drop into a large pipe from tural department of the Central Mich. V. Walker of Flint, to whom Humwhich they are sucked, cinders and igan Normal, has been so successful phrey sold 13,500 shares of the stock.

that Prof. Cobb is now planning a second campaign. This will be a constructive, rather than a destructive, campaign. Prof. Cobb has the printed ment is made that the Adventist tabmatter nearly ready for distribution. It deals with methods for testing the soil for acidity and for lime. The plan is to furnish the teachers of the rural schools throughout Western Michigan, with full information re-garding methods for soil testing, and to have these instructions so simple that any teacher can test soil with a fair degree of accuracy. As soon as the teachers become expert testers, the children will be invited to bring samples of soil to school, that these may be pronounced either alkaline or acid. Prof. Cobb has noticed in his travels over Western Michigan, that many acres are being sown to alfalfa, which acres are so strongly acid that the prospects of getting a good alfalfa crop is small. It is his idea that all farmers before sowing alfalfa, should field, that the teacher may render a statement as to the need of the soil as regards lime.

Prof. Cobb recently gave expression to the following sentiments upon this point: "It is folly for the high schools and the agricultural colleges to allow the farmers to continue to sow alfalfa on fields that are lacking in time, and to eventually make a fail ure of their efforts, when the condithat a total force of but nine men will tion of the soil can be so easily deter-

Lansing.-Governor Ferris has issued a requisition on the governor of California for Joseph W. Humphrey, now in that state, who is wanted at Flint on the charge of having sold stock of the Michigan-Arkansas Lumber company under false pretenses. three months, under the direction of The particular case on which the

ernacle, the largest church in Michigan, will not be sold to the chamber of commerce for a convention hall.

Hillsdale.-George A. Mark, the oldest county surveyor and drain commissioner in continuous service in

Battle Creek .- William Rook. city teamster, despondent over poor health, took his own life by swallow-ing poison. Rook, 30 years old, lived with his widowed mother, who says he has complained of late of inability to stand his work. He was unmar-

Battle Creek.-Municipal ownership Michigan, died Thursday. He was 84 years old and a member of the class of '53, the first engineering class to be graduated from the University of Michigan.

Battle Creek. The income of the local plant in the past year amounted to something like \$77,000, while the expenses were \$21,957. Battle Creek has 78 miles of mains and 6.295 of a water works system has paid in

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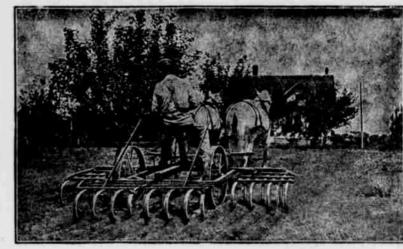
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M. C. M. STUDENTS UNDERGROUND IN A COPPER MINE,

The senior class at the College of Mines has just made the annual trip to the Calumet & Becla mine, Conglomerate lode. This company extends to each class once during its course, usually during the last term, the privilege of a day underground at this greatest of all copper mines. It is a privilege granted to no other mining college and usually not even to the great mining engineers who visit the Copper Country. Mr. James Mc-Naughton, General Manager of all the Calumet & Hecla properties, is a member of the Board of Control of the College, and General Superintendent John Knox graduated from the College in 1899. The class this year spent the forenoon at about the 60th level, and in the afternoon received a lesson in the use of rescue apparatus.

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EDISON PHONOGRAPHS MICHIGAN COLLEGE OF MINES. STUDENTS FINISH UNDER-GROUND WORK IN 1 WEEK

Houghton.-The first-year class of Michigan College of Mines students has finished out its beginning course in the Principles of Mining by spending a week underground in the copper mines of the district. In other years, these trips have been taken on Saturdays throughout the term.

The mines visited this year were as follows: Calumet and Hecia (amygdaloid lode), Franklin, Cham-pion, Winona and Isle Royale. In order to take these trips, the students have to arrive at the mines in time to go down with morning shift of miners. The captains, shift-bosses and other mine officials guide them through the workings and explain to them the details of mining practice. The mining companies of Michigan have always co-operated ungrudgingwith the College in its task of "teaching the students how to mine."

New Corporations

Marolf-Oberg Real Estate company Iron River, \$10,000, incorporated to deal in real estate, principal stockholders William H. Marolf and M. E Oberg; Master Plumbers' Specialty company, incorporated to deal in plumber's supplies, principal stock-holders E. A. Newman and H. R. Mauren; Barkume & Starke Concrete company, Detroit, \$5,000, incorporated to construct cement walks, principal stockholders E. J. Barkume and F. H. Stark; Globe Realty company, Grand Rapids, \$100,000, Incorporated to deal in real estate, principal stockholders Fred N. Rowe and L. E. Smith; Franklin Theater company, Saginaw, \$60,000, incorporated to operate a theater, principal stockholders J. B. Kirby and J. D. Pilmore.

GOVERNOR FERRIS
MAKES APPOINTMENTS.

Lansing.-Governor Ferris has aupointed the following county agents: Iron county, Charles Neugebauer, Crystal Palis; Manistee county, Joseph Schneider; Keweenaw county, Dr. A. N. Chatel, Phoenix; Iosco county,

Alfred J. Noel, East Tawas; Osceola county Frank E. Turner, Evart. He has also appointed Marl T. Murray of Lansing delegate to the American Association of Officials of Charities and Corrections, to be held at Memphis, Tenn., May 7 and 8; also to the National Conference of Correction and Charities at the same place May

SHORT STATE STORIES

Battle Creek .- Messages to local relatives of C. W. Post announce his errival at Santa Barbaga, Cal., with the appended information that he is in good health, following his operation at Rochester, Minn.

Jackson.—Edward A. Finney has resigned as captain of Company M, First infantry, M. N. G., located here. He retires from the service for business reasons. First Lieut. L. J. Coland Easy Terms. Get a High-Grade Cyclopedia at a Big Saving drawings. It is complete enough for the most exacting scholar, yet so simple a child can understand it; and so interesting that everybody will read it with pleasure. These six superb volumes contains six superb volumes contain over 3000 pages and are printed from large, clear, new type on highest quality paper and bound in heavy buckram. 1500 text illustrations, 24, full full page colored maps, 24 full page color plates, 24 full page half tones. Leading educators and librarians everywhere agree that this is the finest reference book available anywhere. Highest en-

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